CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Project Sub Division Yelahanka Zone,
BBMP Bangalore.

19th January 2016

Dear Sir,

Sub: Improvements to park at Lakkappa layout near Singapura Village in ward no. 11.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(BASAVARAJ K.)
Executive Director

JE Jundrech
19/1/16

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Project Sub Division Yelahanka Zone , BBMP
Name of Work	Improvements to park at Lakkappa layout near Singapura Village in ward no. 11.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-15
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	CC-Work (Kerb Stone)	150.01 X 150.02 X 150.0	22505	22/12/2015	19/01/2016	28	8.20	348	**15.47**	**15.61**
2		150.03 X 150.04 X 150.0	22511				8.19	352	**15.64**	
3		150.04 X 150.05 X 150.0	22514				8.21	354	**15.73**	

Note:

1. The results relate only to the items tested.
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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

CIVIL TECH LABS BANGALORE

(BASAVARAJ K.)
Executive Director

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Project Sub Division Yelahanka Zone , BBMP
Name of Work	Improvements to park at Lakkappa layout near Singapura Village in ward no. 11.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	CC Work	150.12 X 150.09 X 150.0	22532	22/12/2015	19/01/2016	28	8.22	505	**22.44**	**22.22**
2		150.13 X 150.11 X 150.0	22536				8.20	500	**22.22**	
3		150.15 X 150.14 X 150.0	22544				8.19	495	**22.00**	

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(BASAVARAJ K.)
Executive Director

CIVIL TECH LABS BANGALORE

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T-2654

To,

Assistant Executive Engineer
Project Sub Division Yelahanka Zone,
BBMP Bangalore.

03rd June 2015

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials Samples supplied by you, for the work of **'Improvements to park at Lakkappa layout near Singapura Village in ward no. 11.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Project Sub Division Yelahanka Zone , BBMP
Name of Work	Improvements to park at Lakkappa layout near Singapura Village in ward no. 11.
Name of the Agency	M/s. K. R. I. D. L.
Date of Testing	03/06/2015

Tests	**Test Method As Per IS & Apparatus**		**Results**		**Requirements As Per IS 8112:1989**	**Remarks**
	IS Code	**Method**	**Value**	**Unit**		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	52	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	486	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	4	mm	Not More Than 10 mm	Satisfies Requirement

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Lab Incharge
Civil Tech Labs

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TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Project Sub Division Yelahanka Zone , BBMP
Name of Work	Improvements to park at Lakkappa layout near Singapura Village in ward no. 11.
Name of Agency	M/s. K. R. I. D. L.
Date of Testing	03/06/2015
Specific Gravity	**2.58**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	**100**	100	100	100	100	II	Satisfies the requirement
	4.75	**98.7**	90-100	90-100	90-100	95-100		
	2.36	**85.6**	60-95	75-100	85-100	95-100		
	1.18	**74.2**	30-70	55-90	75-100	90-100		
	0.6	**45.8**	15-34	35-59	60-79	80-100		
	0.3	**24.6**	5-20	8-30	12-40	15-50		
	0.15	**8.7**	0-10	0-10	0-10	0-15		

Note:

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Project Sub Division Yelahanka Zone , BBMP
Name of Work	Improvements to park at Lakkappa layout near Singapura Village in ward no. 11.
Name of Agency	M/s. K. R. I. D. L.
Date of Testing	03/06/2015
Specific Gravity	**2.68**
Water Absorption	**0.28%**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	**100**	100	**Satisfies the requirement**
40	**97.6**	95-100	
20	**54.2**	30-70	
10	**28.6**	10-35	
4.75	**4.1**	0-5	

Note:

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 20mm ↓ Graded

Name & Address of the Customer	AEE, Project Sub Division Yelahanka Zone , BBMP
Name of Work	Improvements to park at Lakkappa layout near Singapura Village in ward no. 11.
Name of Agency	M/s. K. R. I. D. L.
Date of Testing	03/06/2015
Specific Gravity	**2.63**
Water Absorption	**0.31%**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	**Sieve Analysis (% Passing IS Sieve)**	**Grading Requirement as per IS:383-1970 (Reaffirmed 2011)**	**Remarks**
40	**100**	100	**Satisfies the requirement**
20	**98.9**	95-100	
10	**44.2**	25-55	
4.75	**7.6**	0-10	

Note:

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Lab Incharge
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